

Title (en)
NON-PNEUMATIC TIRE

Title (de)
LUFTLOSER REIFEN

Title (fr)
PNEU NON PNEUMATIQUE

Publication
EP 3162591 A4 20171213 (EN)

Application
EP 15811101 A 20150227

Priority
• JP 2014131406 A 20140626
• JP 2015055813 W 20150227

Abstract (en)
[origin: EP3162591A1] A non-pneumatic tire (1) includes an attachment body attached to an axle, a ring-shaped body (13) configured to surround the attachment body from the outside in a tire radial direction, a connecting member (15) configured to connect the attachment body and the ring-shaped body while allowing displacement therebetween, and a cylindrical tread member (16) installed outside the ring-shaped body, wherein an outer circumferential surface of the tread member has a plurality of curved surface sections (41) to (42) that are continuously formed in a tire width direction (H) with no step difference and formed in a shape protruding outward in the tire radial direction when seen in a cross-sectional view in the tire width direction, the plurality of curved surface sections have different radii of curvature in the tire width direction when seen in the cross-sectional view, and in the plurality of curved surface sections, and intermediate curved surface sections (42) disposed between a central curved surface section (41) disposed at a central portion in the tire width direction and shoulder curved surface sections (43) disposed outside in the tire width direction have a radius (R2) of curvature larger than radii of curvature (R1) and (R3) of the other curved surface sections when seen in the cross-sectional view.

IPC 8 full level
B60C 7/00 (2006.01); **B60B 9/04** (2006.01); **B60C 11/00** (2006.01)

CPC (source: EP US)
B60B 9/04 (2013.01 - US); **B60C 7/00** (2013.01 - US); **B60C 7/14** (2013.01 - US); **B60C 7/146** (2021.08 - EP); **B60C 7/18** (2013.01 - EP); **B60C 11/00** (2013.01 - EP US); **B60C 11/0083** (2013.01 - EP); **B60B 3/02** (2013.01 - US); **B60B 3/10** (2013.01 - US); **B60B 9/26** (2013.01 - EP); **B60B 2900/313** (2013.01 - EP US); **B60B 2900/325** (2013.01 - US); **B60C 7/146** (2021.08 - US)

Citation (search report)
• [Y] WO 2014069653 A1 20140508 - BRIDGESTONE CORP [JP]
• [Y] JP S62295702 A 19871223 - SUMITOMO RUBBER IND
• [Y] JP H06297912 A 19941025 - BRIDGESTONE CORP
• [Y] EP 1484196 A1 20041208 - GOODYEAR TIRE & RUBBER [US]
• See references of WO 2015198637A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3162591 A1 20170503; EP 3162591 A4 20171213; EP 3162591 B1 20200401; CN 106414111 A 20170215; CN 106414111 B 20190618; JP 2016008012 A 20160118; JP 6708364 B2 20200610; US 2017120680 A1 20170504; WO 2015198637 A1 20151230

DOCDB simple family (application)
EP 15811101 A 20150227; CN 201580033163 A 20150227; JP 2014131406 A 20140626; JP 2015055813 W 20150227; US 201515318045 A 20150227